

**Listing of Claims**

1. (Original) A method for performance optimizing the transfer of bulk data between computer systems each having storage devices able to store large amounts of data, comprising the steps of:

gathering throughput-relevant information from system components involved in the transfer;

establishing a knowledge base that holds algorithms and data on relations and combinations of throughput-relevant information;

passing the gathered information to the knowledge base; and

determining using the knowledge base a set of performance parameters that are effective to achieve a maximum data throughput.

2. (Original) The method of claim 1 in which the transfer is part of a backup or restore operation for bulk data.

3. (Original) The method of claim 1 in which one of the computer systems comprises a client system and another of the computer systems comprises a server system.

4. (Original) The method of claim 3 in which the information gathering step comprises the step of gathering information on a network used to connect the client system to the server system.

5. (Original) The method of claim 3 in which the information gathering step comprises the step of gathering information on the server system.
6. (Original) The method of claim 3, further comprising the step of evaluating the performance of the client system and its subsystems on the basis of the information gathered.
7. (Original) The method of claim 3, further comprising the step of evaluating the performance of a network used to connect the client system to the server system on the basis of the information gathered.
8. (Original) The method of claim 3, further comprising the step of evaluating the performance of the server system on the basis of the information gathered.
9. (Original) The method of claim 1 in which the set of performance parameters determined includes usage of data compression.
10. (Original) The method of claim 1 in which the set of performance parameters determined includes a multiplex factor to be applied.
11. (Original) The method of claim 1 in which the set of performance parameters determined includes a number of sessions to be used.
12. (Original) The method of claim 1 using a data transfer controller that is adjustable to adapt the throughput of data depending on configuration and status of the computer systems and further comprising the step of setting up the data transfer controller according to the determined set of performance parameters.

13. (Original) Apparatus for performance optimizing transfer of bulk data between computer systems each having storage devices able to store large amounts of data, comprising:

means for gathering throughput-relevant information from system components involved in the transfer;

means for establishing a knowledge base that holds algorithms and data on relations and combinations of throughput-relevant information;

means for passing the gathered information to the knowledge base; and

means for determining using the knowledge base a set of performance parameters that are effective to achieve a maximum data throughput.

14. (Original) The apparatus of claim 13 in which one of the computer systems comprises a client system and another of the computer systems comprises a server system.

15. (Original) The apparatus of claim 13 including a data transfer controller that is settable to adapt the throughput of data depending on configuration and status of the computer systems and further comprising means for setting up the data transfer controller according to the determined set of performance parameters.

16. (Original) A program product stored on a machine readable data carrier for performance optimizing the transfer of bulk data between computer systems each having storage devices able to store large amounts of data, comprising the steps of:

gathering throughput-relevant information from system components involved in the transfer;

establishing a knowledge base that holds algorithms and data on relations and combinations of throughput-relevant information;

passing the gathered information to the knowledge base; and

determining using the knowledge base a set of performance parameters that are effective to achieve a maximum data throughput.

17. (Original) The program product of claim 16 in which one of the computer systems comprises a client system and another of the computer systems comprises a server system.

18. (Original) The program product of claim 16 using a data transfer controller that is settable to adapt the throughput of data depending on the configuration and status of the computer systems and further comprising the step of setting up the data transfer controller according to the determined set of performance parameters.